

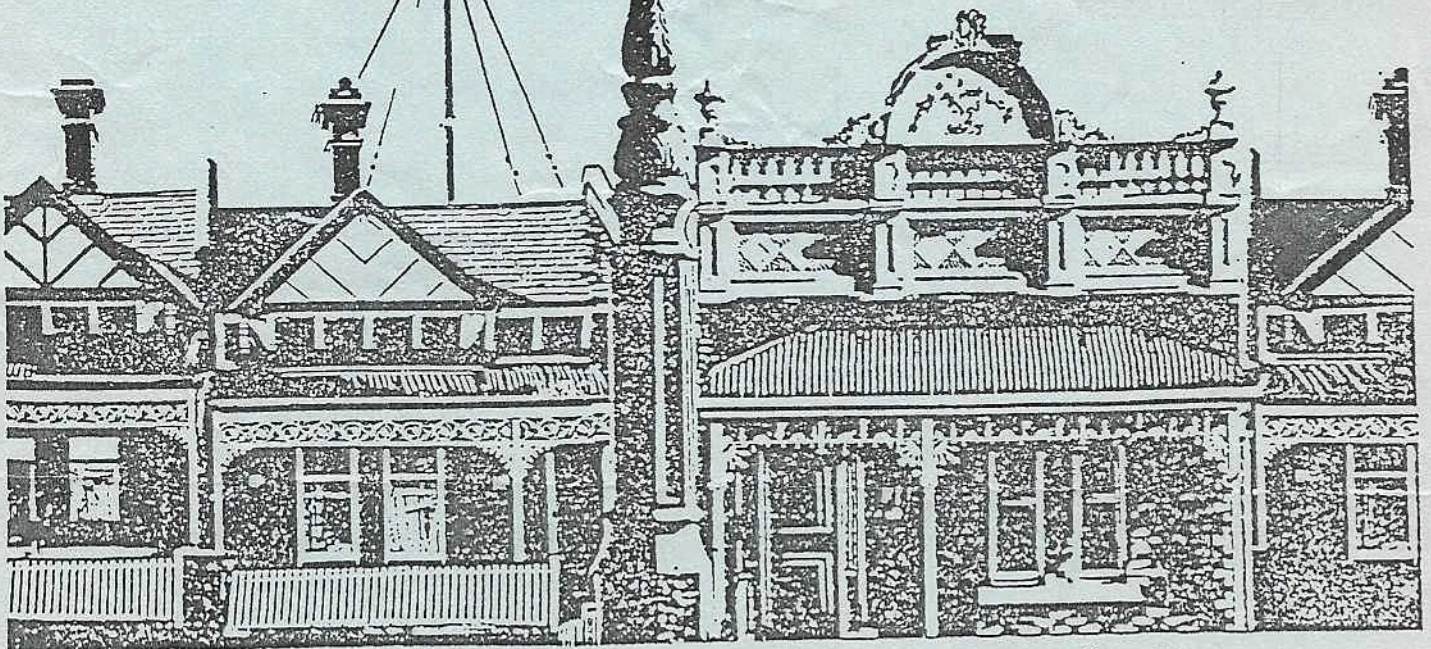
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B·A·R·G NEWS

SEPTEMBER 87.



● Monthly Newsletter of the
Ballarat Amateur Radio Group

REGISTERED BY AUSTRALIA POST, PUBLICATION NO. V3H3397

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BALLARAT AMATEUR RADIO GROUP INCORPORATED. OFFICERS 1987-88.EXECUTIVE COMMITTEE.

			<u>Home</u>	<u>Business</u>
<u>PRESIDENT</u>	Ron Watkins.	VK3 XOA	35 6017	32 1447
<u>IMM.PAST PRESIDENT</u>	Bob Terrill.	VK3 BNC	39 5317	39 1001
<u>VICE PRESIDENT</u>	John Hazledine.	VK3 CFH	39 1971	39 1035
<u>SECRETARY</u>	Jim Wright.	VK3 CFB	32 7563	
<u>ASST.SECRETARY</u>	George Fowler.	VK3DOK.	326863	391954
<u>TREASURER</u>	Harry Hekkema.	VK3 KGL	35 7563	39 1001
<u>PUBLICITY OFFICER</u>	Gordon Cornell.	VK3 PUW	39 2427	39 1135
<u>EDUCATION OFFICER</u>	Ian McDonald.	VK3 AXH	41 3717	31 1317
<u>NET CO-ORDINATOR</u>	Reg Carter.	VK3 CAZ	41 3566	
<u>TECHNICAL OFFICER</u>	Dick Forrester.	VK3 VU	35 7663	39 1001
<u>MEMBERS REPRESENTATIVE.</u>	Neil Davidson.	VK3 KQQ	35 9612	

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OFFICERS AND COMMITTEES.

<u>NEWSLETTER EDITOR</u>	Ron Watkins.	VK3 XOA	35 6017	32 1447
<u>Q.S.L.MANAGER</u>	Cliff Bilston.	VK3 CCB		
<u>AWARDS MANAGER</u>	Maurie Batt.	VK3 XEX	42 2245	
<u>PROPERTY OFFICER</u>	Dick Antoziewicz.	VK3 AEX	32 3273	31 1818
<u>HAMFEST CONVENER</u>	Kevin Hughes.	VK3 WN	35 5011	
<u>WICEN COMMITTEE</u>	Dick Antoziewicz.	VK3 AEX	32 3273	31 1818
	Dick Forrester.	VK3 VU	35 7663	39 1001
	Geoff Smith.	VK3 ADB	33 2112	
<u>NEWSLETTER COMM.</u>	Bob Terrill.	VK3 BNC	39 5317	39 1001
	Ron Watkins.	VK3 XOA	35 6017	32 1447
	Dick Forrester.	VK3 VU	35 7663	39 1001
	John Brown.	VK3 CJB	39 1014.	
<u>TECHNICAL COMM.</u>	Dick Forrester.	VK3 VU	35 7663	39 1001
	Phil Seddon.	VK3 AQM	31 5220	31 3166
	Maurie Batt.	VK3 XEX	42 2245	

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B.A.R.G.meets on the LAST FRIDAY of every month except December at the Ballarat Education Centre, Hopetoun St, Ballarat. 7.30pm.

Committee meetings are held at the Education Centre on the Wednesday two weeks prior to the Club meeting at 7.30pm. Members of the Executive Committee are expected to attend and any Club Member with business for discussion is welcome.

All correspondence should be addressed to -
The Secretary, B.A.R.G.Inc, P.O.Box 216E, Ballarat East. 3350.

Applications for Awards to-Maurie Batt, R.S.D.Rokewood Junction. 3351.

Minutes of meeting held Ballarat Education Centre, 28th August 1987 at 7.45pm.

The President Ron Watkins, in the chair, opened the meeting, welcomed the 28 persons present, and introduced Ian Channing (Guest Speaker) along with Peter and Steven Gibbs (Visitors). Stand-in Secretary Clarry DMK.

APOLOGIES: VK3DS, KIT, CUH, CFB, KGL.

MINUTES: Moved Gordon PUW, seconded Dick AEX that the minutes of the previous meeting as published in the Club magazine be confirmed. No matters arising.

CORRESPONDENCE: Nil

TREASURERS REPORT: Acting Treasurer, Bob BNC, presented treasurers report. Moved Ian AXH, seconded Cliff CCB that the treasurers report be accepted and accounts passed for payment.

QSL MANAGER REPORT: CCB Cliff advised that 246 cards had arrived, and approximately 300 had been sent out.

NET MANAGERS REPORT: Only the usual regulars have participated on the weekly net; Reg and President requested as many members as possible join in.

PUBLICITY: Gordon PUW drew attention to articles in the Club magazine, and that more publicity should appear in the next issue of Amateur Radio.

EDUCATION: Ian AXH reported that there are very few applicants sitting for examinations, of these only about 15% are successful. A strong indication of lack of preparation, and the fee increases have not helped. He emphasised that applicants must study to expect results.

TECHNICAL OFFICER: Dick VU reported that 'all is well' and channel 6 operating very well 'undisturbed'.

AWARDS: Maurie KEX reported the issue of 1 DX Widows award, and 1 Goldrush award (to ex-Ballarat member Leo, now in VK2) has been returned as unknown at address.

NEWSLETTER: Ron made his usual plea for more original Material for the magazine. Deadline is roughly the 20th day of each month.

At the conclusion of the reports President Ron made a small presentation to Maurie KEX to celebrate his 76th birthday the following day.

GENERAL BUSINESS:

Discussion resolved that the trip to the Weather Bureau be postponed to late summer, and members in favour of a visit to 'The Courier' after a Friday night meeting.

Dick VU advised that he had recently attended the WIA Technical Advisory Committee meeting in Melbourne, where the repeater band plan was discussed. Concern was also raised that the WIA was currently responsible for 63 repeaters, their licences, power bills, and site rentals. This in addition to the loss of 1000 members in the past year has caused a serious depletion of WIA funds. Proposals put forward at that meeting was that users pay for repeaters - a survey to be conducted in this regard. Dick VU would appreciate your comments.

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Moved Cliff CCB, seconded BNC Bob that the Secretary obtain a copy of the tape of the last Western Zone meeting from their President VK3KAV.

Ron received favourable reaction to the suggestion of an evening visit to the Ballarat Fire Station in October.

Kevin WN Convention co-ordinator advised that:-

Raffle prize by \$100 petrol

Registration prize (costs you nothing extra to enter) \$100 prize

Admission charge by \$8 for adults - children under 12 free - charge includes BBQ lunch.

Events - 80m Scramble and fox hunt

2m scramble and fox hunt

Sniffer hunt

CW competition?.

Informal night Saturday 31st October to consist of counter tea at the Western Hotel at 6.30pm. Let Kevin know on 355011 your number attending - failure could result in a problem of no seat, or worse still some difficulty in getting a meal. Numbers are important.

Fred KQF advised that PAP Geoff will be completing a survey in preparation for JOTA at Mt. Beckwith. Report at the next meeting.

That concluded the business section at 8.45pm.

Ian Channing, Chief Radiographer at the Base Hospital, gave a very interesting talk with slides on the mysteries of x-rays.

Dick AEX then gave a talk and practical demonstration on radio telephone equipment.

The evening was rounded off socialising (with sandwiches courtesy of XYL XEX Marj) and coffee.

BITS 'N THINGS

A visit to the Ballarat City fire station has been arranged for Friday 16 October at 7.30pm. Meet at the Talbot ST. gate.

FOR SALE, Kenwood TS530S TX
A.T.U.
Rotator
Desk Mic
Hi Mound key
Sundry coax and connectors
Price \$800 ono.
Jim VK3CFB.

Raffle tickets for the Hamvention will be available at the next meeting.

Bookings for the Hamvention counter tea at the Western Hotel on October 31, can be made with Kevin VK3WN, or, Ron VK3XOA. Please book early.

Major City Earth Stations (MCES)

Total Number of MCES

8

Locations & Details**SYDNEY**

Crozier Road
Belrose NSW 2085
Telephone: (02) 450 2922

Major Functions

Key network control, satellite performance monitoring, tracking and inorbit station-keeping. Network operations centre for all other stations. Staffed 24 hours a day.

Number of Antennas

3
2x13m diameter for user communications.
1x14m diameter for tracking, telemetry, monitoring and command (TTC & M)

Other Equipment

39.5m microwave tower for land-based signal sending and receiving

PERTH

Lot 1 Altone Road
Lockridge WA 6054
Telephone (09) 378 1266

Major Functions

Back-up for Belrose plus user communications. Staffed day time only.

Number of Antennas

2x13m diameter communications
1 tracking & telemetry dish.

Other Equipment

32m microwave tower.

ADELAIDE

11-15 Aruma Street
Regency Park SA 5010

Major Function

Communications-unmanned.

Number of Antennas

2x13m diameter for communications
23m microwave tower.

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BRISBANE

232 Grieve Road
Rosedale QLD 4123

Major Function

Communications-unmanned

Number of Antennas

1x18m diameter
69m microwave tower.

CANBERRA

Block 3, section 20
Vicars Street
Mitchell ACT 2911

Major Function

Communications — unmanned

Number of Antennas

1x13m diameter
33m microwave tower.

DARWIN

University Avenue
Palmerston NT 5787

Major Function

Communications — unmanned

Number of Antennas

2x18m diameter
32m microwave tower.

HOBART

Knocklofty Terrace
West Hobart TAS 7000

Major Function

Communications — unmanned

Number of Antennas

1x13m diameter
9m microwave tower
18m passive repeater tower.

MELBOURNE

643 Highbury Road
East Burwood VIC 3151

Major Function

Communications — unmanned.

Number of Antennas

1x13m diameter
35.5m microwave tower.

The First Generation Satellites

Model	HS 376
Manufactured by	Hughes Communications International Los Angeles. Built to Australian design specifications.
Weight	650 kilos — initial on-station mass
Height — Stored for launch	2.8 m
Deployed	6.6 m
Diameter	2.2 m
Number of Antennas	3 cross polarised dish reflectors for communications beams plus 1 omni tracking antenna.
Number of Control Thrusters	4 Hughes 1.124 Newton thrusters for on-orbit station keeping and altitude control.
On-board Equipment	15 transponders on each satellite — 4x30 watt high power, 11x12 watt low power, 27 feed horns, 15 amplifiers, 2 batteries (nickel-cadmium). Electrical equipment. Over 16,000 solar cells on outer casing, onboard fuel for positioning.
Use of Satellites	Multipurpose telecommunications and direct broadcasting.
Number of 1st Generation Satellites	3
Orbital position above	156°E, 160°E, 164°E longitude
Distance from Equator	36,000 kms — geostationary orbit
Minimum Expected Life-span	7 years
Frequency Range	14/12 GHz KU Band
1st Satellite Launch	27 August 1985
By —	NASA
On —	Space Shuttle — Discovery
From —	Cape Canaveral, USA

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2nd Satellite Launch

By —

On —

From —

27 November 1985

NASA

Space Shuttle — Atlantis

Cape Canaveral — USA

3rd Satellite Launch

By —

On —

From —

Mid 1986

European Space Agency (ESA)

Ariane Rocket

Kourou, French Guyana

Operational

First satellite operational October 1985

Coverage Areas

In uplink direction, each satellite will have two national beams each capable of receiving signals from anywhere in Australia and offshore regions.

In downlink direction, each will have two national beams and four spot beams covering:

Western Australia (WA beam)

Queensland (NE beam)

South Australia, Northern Territory (CA beam)

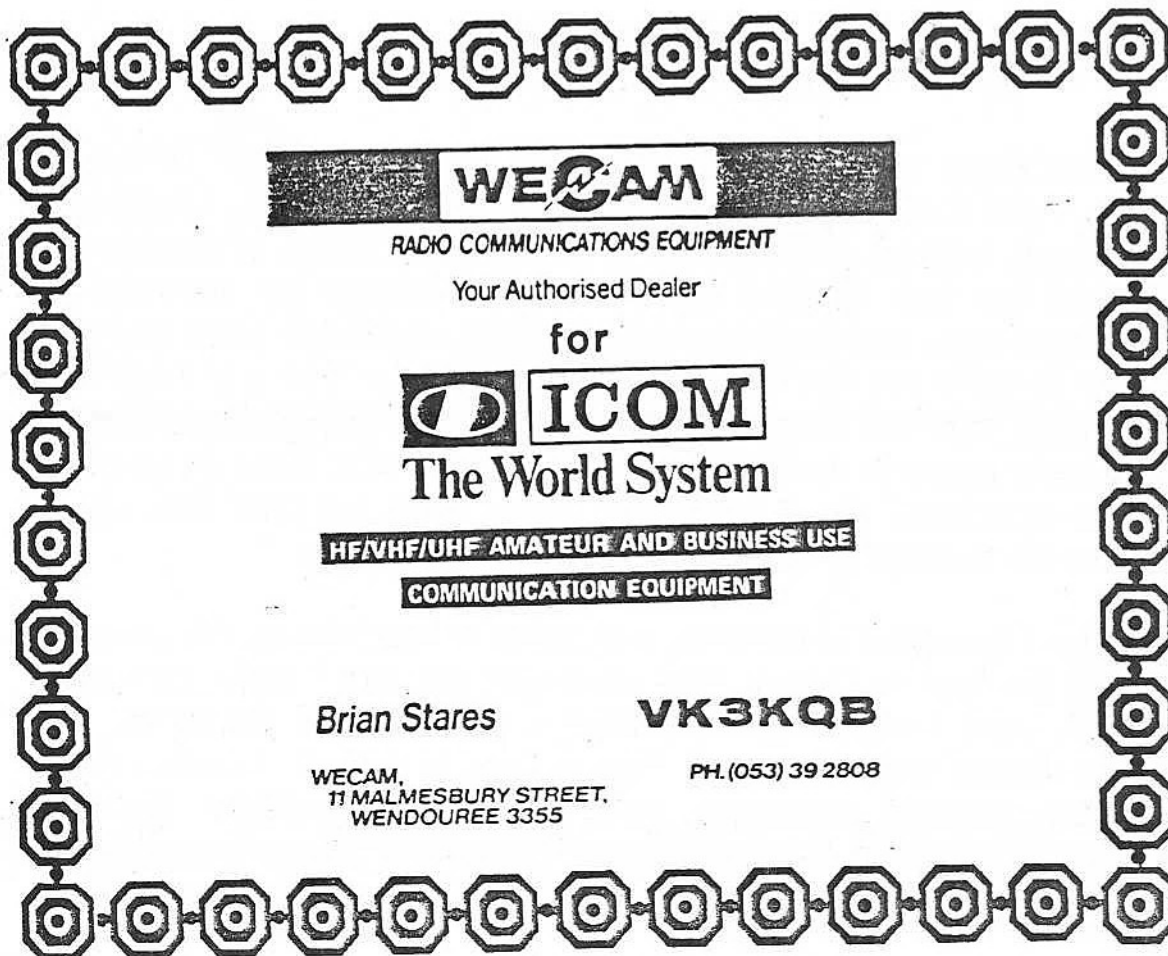
New South Wales, Victoria, Tasmania (SE beam)

Lord Howe Island, Norfolk Island (also SE beam)

The third satellite will also have a beam with uplink and downlink capacity available for the South West Pacific region.

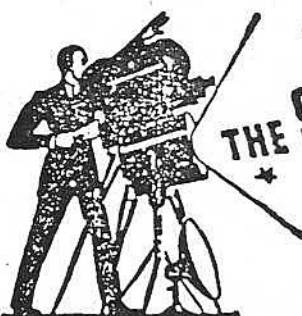
THIS SPACE RESERVED FOR YOUR CONTRIBUTION.

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WECAM
RADIO COMMUNICATIONS EQUIPMENT
Your Authorised Dealer
for
 **ICOM**
The World System
HF/VHF/UHF AMATEUR AND BUSINESS USE
COMMUNICATION EQUIPMENT

Brian Stares **VK3KQB**
WECAM,
11 MALMESBURY STREET,
WENDOUREE 3355 PH. (053) 39 2808



THE SPOTLIGHT IS ON!

Venture Video
614 SKIPTON ST., SEBASTOPOL
Ph. (053) 35 6933

The Pathfinder

The road from Colac to Ballarat is not hard to follow. The main street in Colac is Rt. 1 and it is easy to spot the turnoff to Cressy. Well, I found my way to Ballarat without getting lost in Rokewood, Cressy, or Buninyong, but I missed the turn to Eyre Street when I reached the environs of Ballarat. It was dark, and the Friday night traffic was dense. What to do? I got onto the Ballarat repeater and asked for help. I was hoping to find Fred KQF. I've heard him on several occasions get the *Hopelessly Muddled* through to their esoteric destinations. Instead, Cliff CCB came on. He gave me thorough directions. Yes, I took a few wrong turns but Cliff didn't give up. He talked me through to Eyre Street and I arrived safely.

The next time I travelled to Ballarat, I ended up in Winchelsea. You guessed it: I missed the turn to Cressy. Now you might ask why I didn't turn back earlier. Well, until I make a journey from A to B at least ten times, the countryside always looks different. This is hard to explain. I think I must have a mild learning disability with regard to direction. Anyway, Winchelsea is halfway to Geelong. Getting to Ballarat means travelling on small and/or unsealed roads. And we all know what the signposts are like!

So, back to the repeater. Cliff, bless his soul, is listening and says he'll help. Cliff is now well acquainted with my poor sense of direction, so he digs out his Army maps. These maps show every road, track, billabong, and cowpat. Whew! I got to Ballarat safely once again. By the way, the scenery is breathtaking and beautiful.

THANK YOU CLIFF VK3CCB.

de Maggie VK3CFI
(Can't Find It)

FOR SALE

Hy-gain TH6DXX triband antenna. (20-15-10) 6 elements in total. A proven performer with over 275 DXCC countries worked from this QTH. Complete with mounting hardware and comprehensive instruction manual. Be the first in with the DX this year for only \$260 (less than 1/3 of new price).

Dick Forrester VK3VU
Ph 053-357663